

ABSTRACT

Charles University in Prague

Faculty of Pharmacy in Hradec Králové

Department of pharmaceutical technology

Candidate: Pavlína Tůmová

Supervisor: RNDr. Marie Musilová, CSc.

Title of diploma thesis: Thermal properties of nanofiber membranes I.

Nanofiber membranes are material used in many sectors as a clothing industry, purification of drinking water or medicine, where are used in ophtalmology, surgery or like a carrier of active substances.

In this thesis is elaborated thermal behaviour of chitosan, polyacrylic acid (PAA), polyurethan (PUR) and polyvinylalcohol (PVA) nanofiber membranes. As the active substance was used nabumeton.

After that the thesis deals with thermal behaviour of afornamed nanofiber membranes with bounded nabumeton.